

(a) a core layer comprising Ziegler-Natta catalyst-polymerized-polypropylene homopolymer, wherein the core layer comprises the interior of the film;

(b) a first tie layer exterior to and on one side of said core layer, said first tie layer comprising a silicon additive and a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, linear low density polyethylenes, polypropylene homopolymer, and blends thereof;

(c) a first skin layer exterior to said core layer and said first tie layer, and on the same side of said core as said first tie layer, wherein said first skin layer comprises material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, linear low density polyethylenes, and blends thereof; and

(d) a second skin layer exterior to said core layer and on a side of said core opposite to said first tie layer and first skin layer, wherein said second skin layer comprises a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene (PB) random copolymers, linear low density polyethylenes, high density polyethylenes, medium density polyethylenes, polypropylene homopolymers, and blends thereof.

38. (Amended) A thermoplastic film comprising:

(a) a core layer comprising Ziegler-Natta catalyst-polymerized-polypropylene homopolymer, wherein the core layer comprises the interior of the film;

(b) a first tie layer exterior to and on one side of said core layer, said first tie layer comprising a silicon additive and a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene

(EP) copolymers, propylene-butylene random copolymers, polypropylene homopolymer, and blends thereof;

(c) a first skin layer exterior to said core layer and said first tie layer on the same side of said core as said first tie layer, wherein said first skin layer comprises material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, and blends thereof;

(d) a second tie layer exterior to said core layer and on a side of said core layer opposite to said first tie layer and first skin layer, said second tie layer comprising a silicon additive and a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, polypropylene homopolymer, and blends thereof; and

(e) a second skin layer exterior to said core layer and said second tie layer, and on a side of said core opposite to said first tie layer and first skin layer, wherein said second skin layer comprises a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene (PB) random copolymers, and blends thereof.

42. (Amended) A thermoplastic film comprising:

(a) a core layer comprising Ziegler-Natta catalyst-polymerized-polypropylene homopolymer, wherein the core layer comprises the interior of the film;

(b) a first tie layer exterior to and on one side of said core layer, said first tie layer comprising a silicon additive and a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, polypropylene homopolymer, and blends thereof;

(c) a first skin layer exterior to said core layer and said first tie layer on the same side of said core as said first tie layer, wherein said first skin layer comprises material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, and blends thereof;

(d) a second tie layer exterior to said core layer and on a side of said core layer opposite to said first tie layer and first skin layer, said second tie layer comprising a material selected from the group consisting of polypropylene homopolymer, maleic anhydride grafted polypropylene, and blends thereof; and

(e) a second skin layer exterior to said core layer and said second tie layer, and on a side of said core opposite to said first tie layer and first skin layer, wherein said second skin layer comprises a material selected from the group consisting of amorphous polyamides, EVOH copolymers, high density polyethylenes, and blends thereof.

51. (Amended) The film of claim 42, wherein said core layer further comprises from about 2 wt% to about 10 wt% of polybutene terephthalate, said polybutene terephthalate having a mean particle size in the range of from about 0.1 to about 10  $\mu\text{m}$ .

Please add new claims 52-68

52. (New) A thermoplastic film comprising:

(a) a core layer comprising a polyolefin wherein the core layer comprises the interior of the film;

(b) a first transition layer comprising a polyolefin and a silicone additive, wherein the first transition layer is exterior to the core layer, and wherein the silicone additive has a viscosity greater than about 1,000,000 centistokes; and

(c) a first skin layer comprising a polyolefin wherein the first skin layer is exterior to the first transition layer and the core layer.

53. (New) The film of claim 52 wherein the silicone additive has a viscosity from about 10,000,000 centistokes to about 50,000,000 centistokes.

54. (New) The film of claim 52 wherein the polyolefin of the core layer comprises polypropylene homopolymer; wherein the polyolefin of the first transition layer comprises a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, linear low density polyethylenes, polypropylene homopolymer, and blends thereof; wherein the first skin layer comprises material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, linear low density polyethylenes, and blends thereof; and wherein the film further comprises a second skin layer exterior to said core layer and on a side of said core opposite to said first transition layer and first skin layer, wherein said second skin layer comprises a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene (PB) random copolymers, linear low density polyethylenes, high density polyethylenes, medium density polyethylenes, polypropylene homopolymers, and blends thereof.

55. (New) The film of claim 54 wherein the silicone additive has a viscosity from about 10,000,000 centistokes to about 50,000,000 centistokes.

56. (New) The film of claim 52 wherein the a core layer comprises polypropylene homopolymer; wherein the first transition layer comprises a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-

propylene (EP) copolymers, propylene-butylene random copolymers, polypropylene homopolymer, and blends thereof; wherein the first skin layer comprises material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, and blends thereof; wherein said film further comprises a second transition layer exterior to said core layer and on a side of said core layer opposite to said first transition layer and first skin layer, said second transition layer comprises a silicon additive and a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, polypropylene homopolymer, and blends thereof; and wherein said film further comprises a second skin layer exterior to said core layer and said second transition layer, and on a side of said core opposite to said first transition layer and first skin layer, wherein said second skin layer comprises a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene (PB) random copolymers, and blends thereof.

57. (New) The film of claim 56 wherein the silicone additive has a viscosity from about 10,000,000 centistokes to about 50,000,000 centistokes.

58. (New) The film of claim 52 wherein the core layer comprises polypropylene homopolymer; wherein the first transition layer comprises a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, polypropylene homopolymer, and blends thereof; wherein the first skin layer comprises material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, and blends thereof; wherein said film further comprises a second

transition layer exterior to said core layer and on a side of said core layer opposite to said first transition layer and first skin layer, said second transition layer comprising a material selected from the group consisting of polypropylene homopolymer, maleic anhydride grafted polypropylene, and blends thereof; and wherein said film further comprises a second skin layer exterior to said core layer and said second transition layer, and on a side of said core opposite to said first transition layer and first skin layer, wherein said second skin layer comprises a material selected from the group consisting of amorphous polyamides, EVOH copolymers, high density polyethylenes, and blends thereof.

59. (New) The film of claim 58 wherein the silicone additive has a viscosity from about 10,000,000 centistokes to about 50,000,000 centistokes.

60. (New) A thermoplastic film comprising:

- (a) a core layer comprising a polyolefin wherein the core layer comprises the interior of the film;
  - (b) a first transition layer comprising a polyolefin and a silicone additive, wherein the first transition layer is exterior to the core layer; and
  - (c) a first skin layer comprising a polyolefin wherein the first skin layer is exterior to the first transition layer and the core layer, and wherein the first skin layer has an exposed surface and wherein the exposed surface of the first skin layer is subjected to a treatment selected from the group consisting of corona discharge, plasma, and flame,
- wherein the film has a seal strength of said first skin layer of at least about 200 grams per inch and has a coefficient of friction of at most about 0.65.

<sup>58</sup>  
~~61~~. (New)      The film of claim <sup>58</sup>~~60~~ having a seal strength of said first skin layer of at least about 240grams per inch and having a coefficient of friction of at most about 0.4.

<sup>60</sup>  
~~62~~. (New)      The film of claim 60 wherein the polyolefin of the core layer comprises polypropylene homopolymer; wherein the polyolefin of the first transition layer comprises a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, linear low density polyethylenes, polypropylene homopolymer, and blends thereof; wherein the first skin layer comprises material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, linear low density polyethylenes, and blends thereof; and wherein the film further comprises a second skin layer exterior to said core layer and on a side of said core opposite to said first transition layer and first skin layer, wherein said second skin layer comprises a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene (PB) random copolymers, linear low density polyethylenes, high density polyethylenes, medium density polyethylenes, polypropylene homopolymers, and blends thereof.

63. (New)      The film of claim ~~62~~ having a seal strength of said first skin layer of at least about 240 grams per inch and having a coefficient of friction of at most about 0.4.

<sup>64</sup>  
~~64~~. (New)      The film of claim 60 wherein the a core layer comprises polypropylene homopolymer; wherein the first transition layer comprises a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-

propylene (EP) copolymers, propylene-butylene random copolymers, polypropylene homopolymer, and blends thereof; wherein the first skin layer comprises material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, and blends thereof; wherein said film further comprises a second transition layer exterior to said core layer and on a side of said core layer opposite to said first transition layer and first skin layer, said second transition layer comprises a silicon additive and a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, polypropylene homopolymer, and blends thereof; and wherein said film further comprises a second skin layer exterior to said core layer and said second transition layer, and on a side of said core opposite to said first transition layer and first skin layer, wherein said second skin layer comprises a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene (PB) random copolymers, and blends thereof.

65. (New) The film of claim 64 wherein the second skin layer has an exposed surface and wherein the exposed surface of the second skin layer is subjected to a treatment selected from the group consisting of corona discharge, plasma, and flame.

66 (New) The film of claim 65 having a seal strength of both said first skin layer and said second skin layer of at least about 240 grams per inch and having a coefficient of friction of at most about 0.4.

67. (New) The film of claim 60 wherein the core layer comprises polypropylene homopolymer; wherein the first transition layer comprises a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-